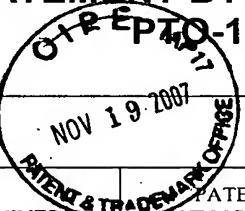


|   |                                       |                               |  |
|---|---------------------------------------|-------------------------------|--|
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|   | Applicant(s)<br><b>VORBACH</b>        |                               |  |
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**U.S. PATENT DOCUMENTS**

| EXAMINER'S<br>INITIALS | PATENT/<br>PUBLICATION<br>NUMBER | PATENT/PUBLICATION<br>DATE | NAME              | CLASS | SUBCLASS | FILING<br>DATE |
|------------------------|----------------------------------|----------------------------|-------------------|-------|----------|----------------|
|                        | RE34363                          | August 31, 1993            | Freeman           |       |          |                |
|                        | RE34,444                         | November 1993              | Kaplinsky         |       |          |                |
|                        | 2,067,477                        | January 12, 1937           | J.B. Cooper       |       |          |                |
|                        | 3,242,998                        | March 29, 1966             | C.H. Gubbins      |       |          |                |
|                        | 3,681,578                        | August 1, 1972             | Stevens           |       |          |                |
|                        | 3,757,608                        | September 11, 1973         | Willner           |       |          |                |
|                        | 3,855,577                        | December 17, 1974          | Vandierendonck    |       |          |                |
|                        | 4,233,667                        | November 11, 1980          | Devine et al.     |       |          |                |
|                        | 4,414,547                        | November 1983              | Knapp et al.      |       |          |                |
|                        | 4,489,857                        | February 6, 1986           | Agrawal et al.    |       |          |                |
|                        | 4,498,134                        | February 5, 1985           | Hansen et al.     |       |          |                |
|                        | 4,498,172                        | February 5, 1985           | Bhavsar           |       |          |                |
|                        | 4,566,102                        | January 21, 1986           | Hefner            |       |          |                |
|                        | 4,591,979                        | May 27, 1986               | Iwashita          |       |          |                |
|                        | 4,663,706                        | May 5, 1987                | James et al.      |       |          |                |
|                        | 4,682,284                        | July 21, 1987              | Schrofer          |       |          |                |
|                        | 4,706,216                        | November 10, 1987          | Carter            |       |          |                |
|                        | 4,720,778                        | January, 1998              | Hansen et al.     |       |          |                |
|                        | 4,720,780                        | January 19, 1988           | Dolecek           |       |          |                |
|                        | 4,739,474                        | April 19, 1988             | Holsztynski       |       |          |                |
|                        | 4,761,755                        | August 2, 1988             | Ardini et al.     |       |          |                |
|                        | 4,811,214                        | March 7, 1989              | Nosenchuck et al. |       |          |                |
|                        | 4,852,043                        | July 25, 1989              | Guest             |       |          |                |
|                        | 4,852,048                        | July 25, 1989              | Morton            |       |          |                |
|                        | 4,860,201                        | August 22, 1989            | Miranker et al.   |       |          |                |
|                        | 4,870,302                        | September 26, 1989         | Freeman           |       |          |                |
|                        | 4,882,687                        | November 1989              | Gordon            |       |          |                |
|                        | 4,891,810                        | January 2, 1990            | de Corlieu et al. |       |          |                |
|                        | 4,901,268                        | February 13, 1990          | Judd              |       |          |                |
|                        | 4,910,665                        | March 20, 1990             | Mattheyses et al. |       |          |                |
|                        | 4,918,440                        | April 17, 1009             | Furtek et al.     |       |          |                |
|                        | 4,967,340                        | October 30, 1990           | Dawes             |       |          |                |
|                        | 5,014,193                        | May 7, 1991                | Garner et al.     |       |          |                |
|                        | 5,015,884                        | May 14, 1991               | Agrawal et al.    |       |          |                |
|                        | 5,021,947                        | June 4, 1991               | Campbell et al.   |       |          |                |
|                        | 5,023,775                        | June 11, 1991              | Poret             |       |          |                |
|                        | 5,043,978                        | August 27, 1991            | Nagler et al.     |       |          |                |
|                        | 5,047,924                        | September 10, 1991         | Matsubara et al.  |       |          |                |

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|  |           |                    |                      |  |  |  |
|--|-----------|--------------------|----------------------|--|--|--|
|  | 5,065,308 | November 12, 1991  | Evans                |  |  |  |
|  | 5,072,178 | December 10, 1991  | Matsumoto            |  |  |  |
|  | 5,081,375 | January 14, 1992   | Pickett et al.       |  |  |  |
|  | 5,109,503 | April 28, 1992     | Cruickshank et al.   |  |  |  |
|  | 5,113,498 | May 12, 1992       | Evan et al.          |  |  |  |
|  | 5,115,510 | May 19, 1992       | Okamoto et al.       |  |  |  |
|  | 5,123,109 | June 16, 1992      | Hillis               |  |  |  |
|  | 5,125,801 | June 30, 1992      | Nabity et al.        |  |  |  |
|  | 5,128,559 | July 7, 1992       | Steele               |  |  |  |
|  | 5,142,469 | August 25, 1992    | Weisenborn           |  |  |  |
|  | 5,144,166 | September 1, 1992  | Camarota et al.      |  |  |  |
|  | 5,193,202 | March 9, 1993      | Lee et al.           |  |  |  |
|  | 5,203,005 | April 13, 1993     | Horst                |  |  |  |
|  | 5,204,935 | April 20, 1993     | Mihara et al.        |  |  |  |
|  | 5,208,491 | May 4, 1993        | Ebeling et al.       |  |  |  |
|  | 5,212,716 | May 1993           | Ferraiolo et al.     |  |  |  |
|  | 5,226,122 | July 6, 1993       | Thayer et al.        |  |  |  |
|  | 5,233,539 | August 3, 1993     | Agrawal et al.       |  |  |  |
|  | 5,247,689 | September 21, 1993 | Ewert                |  |  |  |
|  | 5,274,593 | December 28, 1993  | Proebsting           |  |  |  |
|  | 5,287,472 | February 15, 1994  | Horst                |  |  |  |
|  | 5,294,119 | March 15, 1994     | Vincent et al.       |  |  |  |
|  | 5,301,284 | April 5, 1994      | Estes et al.         |  |  |  |
|  | 5,301,344 | April 5, 1994      | Kolchinsky           |  |  |  |
|  | 5,303,172 | April 12, 1994     | Magar et al.         |  |  |  |
|  | 5,311,079 | May 10, 1994       | Ditlow et al.        |  |  |  |
|  | 5,336,950 | August 9, 1994     | Popli et al.         |  |  |  |
|  | 5,347,639 | September 13, 1994 | Rechtschaffen et al. |  |  |  |
|  | 5,349,193 | September 20, 1994 | Mott et al.          |  |  |  |
|  | 5,353,432 | October 4, 1994    | Richek et al.        |  |  |  |
|  | 5,361,373 | November 1, 1994   | Gilson               |  |  |  |
|  | 5,379,444 | January 3, 1995    | Mumme                |  |  |  |
|  | 5,392,437 | February 21, 1995  | Matter et al.        |  |  |  |
|  | 5,410,723 | April 25, 1995     | Schmidt et al.       |  |  |  |
|  | 5,418,952 | May 23, 1995       | Morley et al.        |  |  |  |
|  | 5,421,019 | May 30, 1995       | Holsztynski et al.   |  |  |  |
|  | 5,422,823 | June 6, 1995       | Agrawal et al.       |  |  |  |
|  | 5,425,036 | June 13, 1995      | Liu et al.           |  |  |  |
|  | 5,426,378 | June 20, 1995      | Ong                  |  |  |  |
|  | 5,428,526 | June 27, 1995      | Flood et al.         |  |  |  |
|  | 5,430,687 | July 4, 1995       | Hung et al.          |  |  |  |
|  | 5,440,245 | August 8, 1995     | Galbraith et al.     |  |  |  |

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|           |                    |                      |  |  |  |
|-----------|--------------------|----------------------|--|--|--|
| 5,440,538 | August 15, 1995    | Olsen et al.         |  |  |  |
| 5,442,790 | August 15, 1995    | Nosenchuck           |  |  |  |
| 5,444,394 | August 22, 1995    | Watson et al.        |  |  |  |
| 5,448,186 | September 5, 1995  | Kawata               |  |  |  |
| 5,455,525 | October 3, 1995    | Ho et al.            |  |  |  |
| 5,457,644 | October 10, 1995   | McCollum             |  |  |  |
| 5,465,375 | November 7, 1995   | Thepaut et al.       |  |  |  |
| 5,473,266 | December 5, 1995   | Ahanin et al.        |  |  |  |
| 5,473,267 | December 5, 1995   | Stansfield           |  |  |  |
| 5,475,583 | December 12, 1995  | Bock et al.          |  |  |  |
| 5,475,803 | December 12, 1995  | Stearns et al.       |  |  |  |
| 5,475,856 | December 12, 1995  | Kogge                |  |  |  |
| 5,483,620 | January 9, 1996    | Pechanek et al.      |  |  |  |
| 5,485,103 | January 16, 1996   | Pedersen et al.      |  |  |  |
| 5,485,104 | January 16, 1996   | Agrawal et al.       |  |  |  |
| 5,489,857 | February 6, 1996   | Agrawal et al.       |  |  |  |
| 5,491,353 | February 13, 1996  | Kean                 |  |  |  |
| 5,493,239 | February 20, 1996  | Zlotnick             |  |  |  |
| 5,497,498 | March 5, 1996      | Taylor               |  |  |  |
| 5,506,998 | April 9, 1996      | Kato et al.          |  |  |  |
| 5,510,730 | April 23, 1996     | El Gamal et al.      |  |  |  |
| 5,511,173 | April 23, 1996     | Yamaura et al.       |  |  |  |
| 5,513,366 | April 30, 1996     | Agarwal et al.       |  |  |  |
| 5,521,837 | May 28, 1996       | Frankle et al.       |  |  |  |
| 5,522,083 | May 28, 1996       | Gove et al.          |  |  |  |
| 5,530,873 | June 25, 1996      | Takano               |  |  |  |
| 5,530,946 | June 25, 1996      | Bouvier et al.       |  |  |  |
| 5,532,693 | July 2, 1996       | Winters et al.       |  |  |  |
| 5,532,957 | July 2, 1996       | Malhi                |  |  |  |
| 5,535,406 | July 9, 1996       | Kolchinsky           |  |  |  |
| 5,537,057 | July 16, 1996      | Leong et al.         |  |  |  |
| 5,537,601 | July 16, 1996      | Kimura et al.        |  |  |  |
| 5,541,530 | July 30, 1996      | Cliff et al.         |  |  |  |
| 5,544,336 | August 6, 1996     | Kato et al.          |  |  |  |
| 5,548,773 | August 20, 1996    | Kemeny et al.        |  |  |  |
| 5,555,434 | September 10, 1996 | Carlstedt            |  |  |  |
| 5,559,450 | September 24, 1996 | Ngai et al.          |  |  |  |
| 5,561,738 | October 1, 1996    | Kinerk et al.        |  |  |  |
| 5,570,040 | October 29, 1996   | Lytle et al.         |  |  |  |
| 5,574,930 | November 12, 1996  | Halverson Jr. et al. |  |  |  |
| 5,583,450 | December 10, 1996  | Trimberger et al.    |  |  |  |
| 5,586,044 | December 17, 1996  | Agrawal et al.       |  |  |  |

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|--|--|---------------------------------------|-------------------------------|
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|           |                   |                       |  |  |
|-----------|-------------------|-----------------------|--|--|
| 5,587,921 | December 24, 1996 | Agrawal et al.        |  |  |
| 5,588,152 | December 24, 1996 | Dapp et al.           |  |  |
| 5,590,345 | December 31, 1996 | Barker et al.         |  |  |
| 5,590,348 | December 31, 1996 | Phillips et al.       |  |  |
| 5,596,742 | January 21, 1997  | Agarwal et al.        |  |  |
| 5,600,265 | February 4, 1997  | El Gamal Abbas et al. |  |  |
| 5,600,845 | February 4, 1997  | Gilson                |  |  |
| 5,611,049 | March 11, 1997    | Pitts                 |  |  |
| 5,617,547 | April 1, 1997     | Feeney et al.         |  |  |
| 5,625,806 | April 29, 1997    | Kromer                |  |  |
| 5,634,131 | May 27, 1997      | Matter et al.         |  |  |
| 5,649,176 | July 15, 1997     | Selvidge et al.       |  |  |
| 5,649,179 | July 15, 1997     | Steenstra et al.      |  |  |
| 5,652,529 | July 1997         | Gould et al.          |  |  |
| 5,652,894 | July 29, 1997     | Hu et al.             |  |  |
| 5,655,069 | August 5, 1997    | Ogawara et al.        |  |  |
| 5,655,124 | August 5, 1997    | Lin                   |  |  |
| 5,657,330 | August 12, 1997   | Matsumoto             |  |  |
| 5,659,797 | August 19, 1997   | Zandveld et al.       |  |  |
| 5,675,743 | October 7, 1997   | Mavity                |  |  |
| 5,680,583 | October 21, 1997  | Kuijsten              |  |  |
| 5,713,037 | January 27, 1998  | Wilkinson et al.      |  |  |
| 5,717,943 | February 10, 1998 | Barker et al.         |  |  |
| 5,732,209 | March 24, 1998    | Vigil et al.          |  |  |
| 5,734,921 | March 31, 1998    | Dapp et al.           |  |  |
| 5,737,516 | April 1998        | Circello et al.       |  |  |
| 5,742,180 | April 21, 1998    | Detton et al.         |  |  |
| 5,748,872 | May 5, 1998       | Norman                |  |  |
| 5,748,979 | May 1998          | Trimberger            |  |  |
| 5,752,035 | May 1998          | Trimberger            |  |  |
| 5,754,827 | May 19, 1998      | Barbier et al.        |  |  |
| 5,754,871 | May 19, 1998      | Wilkinson et al.      |  |  |
| 5,760,602 | June 2, 1998      | Tan                   |  |  |
| 5,761,484 | June 2, 1998      | Agarwal et al.        |  |  |
| 5,773,994 | June 30, 1998     | Jones                 |  |  |
| 5,778,439 | July 7, 1998      | Timberger et al.      |  |  |
| 5,784,636 | July 21, 1998     | Rupp                  |  |  |
| 5,794,059 | August 11, 1998   | Barker et al.         |  |  |
| 5,794,062 | August 11, 1998   | Baxter                |  |  |
| 5,801,715 | September 1, 1998 | Norman                |  |  |
| 5,802,290 | September 1, 1998 | Casselman             |  |  |
| 5,821,744 | October 1998      | Veytsman et al.       |  |  |

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|  |           |                    |                   |  |  |  |
|--|-----------|--------------------|-------------------|--|--|--|
|  | 5,828,229 | October 27, 1998   | Cliff et al.      |  |  |  |
|  | 5,828,858 | October 27, 1998   | Athanasi et al.   |  |  |  |
|  | 5,838,165 | November 17, 1998  | Chatter           |  |  |  |
|  | 5,841,973 | November 1998      | Cooke et al.      |  |  |  |
|  | 5,844,888 | December 1, 1998   | Narjyka           |  |  |  |
|  | 5,848,238 | December 8, 1998   | Shimomura et al.  |  |  |  |
|  | 5,854,918 | December 29, 1998  | Baxter            |  |  |  |
|  | 5,859,544 | January 12, 1999   | Norman            |  |  |  |
|  | 5,865,239 | February 2, 1999   | Carr              |  |  |  |
|  | 5,867,691 | February 2, 1999   | Shiraishi         |  |  |  |
|  | 5,867,723 | February 2, 1999   | Peters et al.     |  |  |  |
|  | 5,884,075 | March 16, 1999     | Hester et al.     |  |  |  |
|  | 5,887,162 | March 23, 1999     | Williams et al.   |  |  |  |
|  | 5,887,165 | March 23, 1999     | Martel et al.     |  |  |  |
|  | 5,889,982 | March 30, 1999     | Rodgers et al.    |  |  |  |
|  | 5,892,370 | April 6, 1999      | Eaton et al.      |  |  |  |
|  | 5,892,961 | April 6, 1999      | Trimberger        |  |  |  |
|  | 5,892,962 | April 6, 1999      | Cloutier          |  |  |  |
|  | 5,901,279 | May 4, 1999        | Davis III         |  |  |  |
|  | 5,915,123 | June 22, 1999      | Mirsky et al.     |  |  |  |
|  | 5,924,119 | July 13, 1999      | Sindhu et al.     |  |  |  |
|  | 5,926,638 | July 1999          | Inoue, Masaharu   |  |  |  |
|  | 5,927,423 | July 27, 1999      | Wada et al.       |  |  |  |
|  | 5,933,642 | August 3, 1999     | Baxter et al.     |  |  |  |
|  | 5,936,424 | April 10, 1999     | Young et al.      |  |  |  |
|  | 5,943,242 | August 24, 1999    | Vorbach et al.    |  |  |  |
|  | 5,956,518 | September 21, 1999 | DeHon et al.      |  |  |  |
|  | 5,960,200 | September 1999     | Eager et al.      |  |  |  |
|  | 5,966,534 | October 12, 1999   | Cooke et al.      |  |  |  |
|  | 5,970,254 | October 19, 1999   | Cooke et al.      |  |  |  |
|  | 5,978,260 | November 2, 1999   | Trimberger et al. |  |  |  |
|  | 5,996,083 | November 30, 1999  | Gupta et al.      |  |  |  |
|  | 6,003,143 | December 1999      | Kim et al.        |  |  |  |
|  | 6,011,407 | January 4, 2000    | New               |  |  |  |
|  | 6,014,509 | January 11, 2000   | Furtek et al.     |  |  |  |
|  | 6,020,758 | February 1, 2000   | Patel et al.      |  |  |  |
|  | 6,021,490 | February 1, 2000   | Vorbach et al.    |  |  |  |
|  | 6,023,564 | February 8, 2000   | Trimberger        |  |  |  |
|  | 6,023,742 | February 8, 2000   | Ebeling et al.    |  |  |  |
|  | 6,026,481 | February 2000      | New et al.        |  |  |  |
|  | 6,034,538 | March 7, 2000      | Abramovicci       |  |  |  |
|  | 6,038,650 | March 14, 2000     | Vorbach et al.    |  |  |  |

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|           |                    |                     |  |  |  |
|-----------|--------------------|---------------------|--|--|--|
| 6,038,656 | March 14, 2000     | Cummings et al.     |  |  |  |
| 6,047,115 | April 4, 2000      | Mohan et al.        |  |  |  |
| 6,049,222 | April 11, 2000     | Lawman              |  |  |  |
| 6,052,773 | April 18, 2000     | DeHon et al.        |  |  |  |
| 6,054,873 | April 25, 2000     | Laramie             |  |  |  |
| 6,058,469 | May 2, 2000        | Baxter              |  |  |  |
| 6,081,903 | June 27, 2000      | Vorbach et al.      |  |  |  |
| 6,085,317 | July 4, 2000       | Smith               |  |  |  |
| 6,086,628 | July 11, 2000      | Dave et al.         |  |  |  |
| 6,088,795 | July 11, 2000      | Vorbach et al.      |  |  |  |
| 6,092,174 | July 18, 2000      | Roussakov           |  |  |  |
| 6,105,105 | August 15, 2000    | Trimberger et al.   |  |  |  |
| 6,108,760 | August 22, 2000    | Mirsky et al.       |  |  |  |
| 6,119,181 | September 12, 2000 | Vorbach et al.      |  |  |  |
| 6,122,719 | September 19, 2000 | Mirsky et al.       |  |  |  |
| 6,125,408 | September 26, 2000 | McGee et al.        |  |  |  |
| 6,127,908 | October 3, 2000    | Bozler et al.       |  |  |  |
| 6,150,837 | November 21, 2000  | Beal et al.         |  |  |  |
| 6,150,839 | November 21, 2000  | New et al.          |  |  |  |
| 6,170,051 | January 2001       | Dowling, Eric M.    |  |  |  |
| 6,172,520 | January 9, 2001    | Lawman et al.       |  |  |  |
| 6,173,434 | January 9, 2001    | Wirthlin et al.     |  |  |  |
| 6,188,240 | February 2001      | Nakaya              |  |  |  |
| 6,202,182 | March 13, 2001     | Abramovici et al.   |  |  |  |
| 6,211,697 | April 2001         | Lien et al.         |  |  |  |
| 6,212,650 | April 2001         | Guccione, Steven A. |  |  |  |
| 6,219,833 | April 17, 2001     | Solomon et al.      |  |  |  |
| 6,230,307 | May 8, 2001        | Davis et al.        |  |  |  |
| 6,240,502 | May 29, 2001       | Panwar et al.       |  |  |  |
| 6,243,808 | June 5, 2001       | Wang                |  |  |  |
| 6,256,724 | July 2001          | Hocevar et al.      |  |  |  |
| 6,260,179 | July 10, 2001      | Ohsawa et al.       |  |  |  |
| 6,263,430 | July 17, 2001      | Trimberger et al.   |  |  |  |
| 6,279,077 | August 21, 2001    | Nasserbakht et al.  |  |  |  |
| 6,282,627 | August 28, 2001    | Wong et al.         |  |  |  |
| 6,282,701 | August 2001        | Wygodny et al.      |  |  |  |
| 6,286,134 | September 2001     | Click, Jr. et al.   |  |  |  |
| 6,288,566 | September 11, 2001 | Hanrahan et al.     |  |  |  |
| 6,289,440 | September 11, 2001 | Casselman           |  |  |  |
| 6,298,472 | October 2, 2001    | Phillips et al.     |  |  |  |
| 6,301,706 | October 2001       | Maslennikov et al.  |  |  |  |
| 6,311,200 | October 30, 2001   | Hanrahan et al.     |  |  |  |

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|  |           |                    |                   |  |  |  |
|--|-----------|--------------------|-------------------|--|--|--|
|  | 6,321,366 | November 20, 2001  | Tseng et al.      |  |  |  |
|  | 6,321,373 | November 20, 2001  | Ekanadham et al.  |  |  |  |
|  | 6,338,106 | January 8, 2002    | Vorbach et al.    |  |  |  |
|  | 6,341,318 | January 22, 2002   | Dakhil            |  |  |  |
|  | 6,347,346 | February 12, 2002  | Taylor            |  |  |  |
|  | 6,349,346 | February 19, 2002  | Hanrahan et al.   |  |  |  |
|  | 6,370,596 | April 9, 2002      | Dakhil            |  |  |  |
|  | 6,378,068 | April 23, 2002     | Foster et al.     |  |  |  |
|  | 6,389,379 | May 14, 2002       | Lin et al.        |  |  |  |
|  | 6,389,579 | May 14, 2002       | Phillips et al.   |  |  |  |
|  | 6,392,912 | May 21, 2002       | Hanrahan et al.   |  |  |  |
|  | 6,398,383 | June 2002          | Huang, Yu-Hwei    |  |  |  |
|  | 6,404,224 | June 11, 2002      | Azegami et al.    |  |  |  |
|  | 6,405,299 | June 11, 2002      | Vorbach et al.    |  |  |  |
|  | 6,421,809 | July 2002          | Wuytack et al.    |  |  |  |
|  | 6,421,817 | July 16, 2002      | Mohan et al.      |  |  |  |
|  | 6,425,054 | July 23, 2002      | Nguyen            |  |  |  |
|  | 6,425,068 | July 23, 2002      | Vorbach           |  |  |  |
|  | 6,434,695 | August 2002        | Esfahani et al.   |  |  |  |
|  | 6,434,699 | August 13, 2002    | Jones et al.      |  |  |  |
|  | 6,435,054 | October 10, 2000   | Nguyen            |  |  |  |
|  | 6,437,441 | August 2002        | Yamamoto          |  |  |  |
|  | 6,457,116 | September 24, 2002 | Mirsky et al.     |  |  |  |
|  | 6,476,634 | November 2002      | Bilski            |  |  |  |
|  | 6,477,643 | November 5, 2002   | Vorbach et al.    |  |  |  |
|  | 6,480,937 | November 12, 2002  | Vorbach et al.    |  |  |  |
|  | 6,480,954 | November 12, 2002  | Trimberger et al. |  |  |  |
|  | 6,490,695 | December 2002      | Zagorski et al.   |  |  |  |
|  | 6,496,971 | December 2002      | Leseca et al.     |  |  |  |
|  | 6,504,398 | April 2004         | Vorbach           |  |  |  |
|  | 6,513,077 | January 28, 2003   | Vorbach et al.    |  |  |  |
|  | 6,519,674 | February 11, 2003  | Lam et al.        |  |  |  |
|  | 6,526,520 | February 25, 2003  | Vorbach et al.    |  |  |  |
|  | 6,538,468 | March 25, 2003     | Moore             |  |  |  |
|  | 6,539,477 | March 25, 2003     | Seawright         |  |  |  |
|  | 6,542,844 | April 2003         | Hanna             |  |  |  |
|  | 6,542,998 | April 1, 2003      | Vorbach           |  |  |  |
|  | 6,571,381 | May 27, 2003       | Vorbach et al.    |  |  |  |

|  |  |                                       |                               |
|--|--|---------------------------------------|-------------------------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANTS<br/>PTO-1449</b> |  | Attorney Docket No.<br>2885/96        | Serial No.<br>10/551,891      |
|  |  | Applicant(s)<br><b>VORBACH</b>        |                               |
|  |  | Filing Date<br><b>August 28, 2006</b> | Group Art Unit<br><b>2125</b> |

|              |                    |                  |  |  |  |
|--------------|--------------------|------------------|--|--|--|
| 6,587,939    | July 1, 2003       | Takano           |  |  |  |
| 6,633,181    | October 2003       | Rupp             |  |  |  |
| 6,657,457    | December 2, 2003   | Hanrahan et al.  |  |  |  |
| 6,687,788    | February 3, 2004   | Vorbach et al.   |  |  |  |
| 6,697,979    | February 24, 2003  | Vorbach et al.   |  |  |  |
| 6,704,816    | March 2004         | Burke, David     |  |  |  |
| 6,717,436    | April 2004         | Kress et al.     |  |  |  |
| 6,728,871    | April 27, 2004     | Vorbach et al.   |  |  |  |
| 6,757,847    | June 2004          | Farkash et al.   |  |  |  |
| 6,785,826    | August 31, 2004    | Durham et al.    |  |  |  |
| 6,803,787    | October 2004       | Wicker, Jr.      |  |  |  |
| 6,886,092    | April 2005         | Douglass et al.  |  |  |  |
| 6,901,502    | May 2005           | Yano et al.      |  |  |  |
| 6,961,924    | November 2005      | Bates et al.     |  |  |  |
| 6,928,523    | August 2005        | Yamada, Akira    |  |  |  |
| 2001/0010074 | July 26, 2001      | Nishihara et al. |  |  |  |
| 2001/0032305 | October 2001       | Barry            |  |  |  |
| 2002/0103839 | August 2002        | Ozawa            |  |  |  |
| 2002/083308  | June 27, 2002      | Pereira et al.   |  |  |  |
| 2002/0038414 | March 28, 2002     | Taylor           |  |  |  |
| 2002/0045952 | April 18, 2002     | Blemel           |  |  |  |
| 2002/0138716 | September 26, 2002 | Paul et al.      |  |  |  |
| 2002/0143505 | October 3, 2002    | Drusinsky        |  |  |  |
| 2002/0144229 | October 3, 2002    | Hanrahan         |  |  |  |
| 2002/0165886 | November 7, 2002   | Lam              |  |  |  |
| 2003/0001615 | January 2003       | Sueyoshi et al.  |  |  |  |
| 2003/0014743 | January 16, 2003   | Cooke et al.     |  |  |  |
| 2003/0046607 | March 6, 2003      | Vorbach          |  |  |  |
| 2003/0056085 | March 2, 2003      | Vorbach          |  |  |  |
| 2003/0052711 | March 20, 2003     | Taylor           |  |  |  |
| 2003/0055861 | March 20, 2003     | Lai et al.       |  |  |  |
| 2003/0056091 | March 20, 2003     | Greenberg        |  |  |  |
| 2003/0056202 | March 20, 2003     | Vorbach          |  |  |  |
| 2003/0086300 | May 2003           | Noyes et al.     |  |  |  |
| 2003/0093662 | May 15, 2003       | Vorbach et al.   |  |  |  |
| 2003/0097513 | May 22, 2003       | Vorbach et al.   |  |  |  |
| 2003/0123579 | July 3, 2003       | Safavi et al.    |  |  |  |
| 2003/0135686 | July 17, 2003      | Vorbach et al.   |  |  |  |
| 2003/0014743 | January 16, 2003   | Cooke            |  |  |  |

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTS  
PTO-1449**

Attorney Docket No.  
2885/96

Serial No.  
10/551,891

Applicant(s)  
**VORBACH**

Filing Date  
**August 28, 2006**

Group Art Unit  
**2125**

|  |              |                  |                |  |  |  |
|--|--------------|------------------|----------------|--|--|--|
|  | 2003/0192032 | October 2003     | Andrade et al. |  |  |  |
|  | 2004/0015899 | January 22, 2004 | May et al.     |  |  |  |
|  | 2004/0025005 | February 5, 2004 | Vorbach et al. |  |  |  |
|  | 2004/0168099 | August 26, 2004  | Vorbach et al. |  |  |  |
|  | 2004/0199688 | October 2004     | Vorbach et al. |  |  |  |

**FOREIGN PATENT DOCUMENTS**

| EXAMINER'S INITIALS | DOCUMENT NUMBER | DATE              | COUNTRY | CLASS | SUBCLASS | TRANSLATION                    |    |
|---------------------|-----------------|-------------------|---------|-------|----------|--------------------------------|----|
|                     |                 |                   |         |       |          | YES                            | NO |
|                     | 0 208 457       | January 14, 1987  | EPO     |       |          |                                |    |
|                     | 0 221 360       | May 13, 1987      | EPO     |       |          |                                |    |
|                     | 0 398 552       | November 22, 1009 | EPO     |       |          |                                |    |
|                     | 0 428 327       | May 22, 1991      | EPO     |       |          |                                |    |
|                     | 0 463 721       | January 2, 1992   | EPO     |       |          |                                |    |
|                     | 0 477 809       | April 1, 1992     | EPO     |       |          |                                |    |
|                     | 0 485 690       | May 20, 1992      | EPO     |       |          |                                |    |
|                     | 0 497 029       | August 5, 1992    | EPO     |       |          |                                |    |
|                     | 0 539 595       | May 5, 1993       | EPO     |       |          |                                |    |
|                     | 0 628 917       | December 14, 1994 | EPO     |       |          |                                |    |
|                     | 0 678 985       | October 25, 1995  | EPO     |       |          |                                |    |
|                     | 0 686 915       | December 13, 1995 | EPO     |       |          |                                |    |
|                     | 0 696 001       | December 5, 2001  | EPO     |       |          |                                |    |
|                     | 0 707 269       | April 17, 1996    | EPO     |       |          |                                |    |
|                     | 0 726 532       | August 14, 1996   | EPO     |       |          |                                |    |
|                     | 0 735 685       | October 2, 1996   | EPO     |       |          |                                |    |
|                     | 0 748 051       | December 11, 1996 | EPO     |       |          |                                |    |
|                     | 0 835 685       | October 2, 1996   | EPO     |       |          |                                |    |
|                     | 0 926 594       | June 30, 1999     | EPO     |       |          |                                |    |
|                     | 1 102 674       | May 30, 2001      | EPO     |       |          |                                |    |
|                     | 1 146 432       | October 17, 2001  | EPO     |       |          |                                |    |
|                     | **2 752 466     | February 20, 1998 | France  |       |          | English equivalent cited above |    |
|                     | 42 21 278       | January 5, 1994   | Germany |       |          |                                |    |
|                     | 44 16 881       | November 17, 1994 | Germany |       |          |                                |    |
|                     | 38 55 673       | November 20, 1996 | Germany |       |          | Abstract Only                  |    |
|                     | 100 28 397      | December 20, 2001 | Germany |       |          |                                |    |
|                     | 100 36 627      | February 14, 2002 | Germany |       |          |                                |    |
|                     | 101 29 237      | April 18, 2002    | Germany |       |          |                                |    |
|                     | 102 04 044      | August 14, 2003   | Germany |       |          |                                |    |
|                     | 196 51 075      | June 10, 1998     | Germany |       |          |                                |    |

|  |  |                                       |                               |
|--|--|---------------------------------------|-------------------------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANTS<br/>PTO-1449</b> |  | Attorney Docket No.<br>2885/96        | Serial No.<br>10/551,891      |
|  |  | Applicant(s)<br><b>VORBACH</b>        |                               |
|  |  | Filing Date<br><b>August 28, 2006</b> | Group Art Unit<br><b>2125</b> |

|  |              |                    |         |  |  | TRANSLATION |
|--|--------------|--------------------|---------|--|--|-------------|
|  | 196 54 593   | July 2, 1998       | Germany |  |  |             |
|  | 196 54 595   | July 2, 1998       | Germany |  |  |             |
|  | 196 54 846   | July 9, 1998       | Germany |  |  |             |
|  | 197 04 044   | August 13, 1998    | Germany |  |  |             |
|  | 197 04 728   | August 13, 1998    | Germany |  |  |             |
|  | 197 04 742   | September 24, 1998 | Germany |  |  |             |
|  | 198 07 872   | August 26, 1999    | Germany |  |  |             |
|  | 198 61 088   | February 10, 2000  | Germany |  |  |             |
|  | 199 26 538   | December 14, 2000  | Germany |  |  |             |
|  | WO90/04835   | May 3, 1990        | PCT     |  |  |             |
|  | WO90/11648   | October 4, 1990    | PCT     |  |  |             |
|  | WO92/01987   | February 6, 1992   | PCT     |  |  |             |
|  | WO93/11503   | June 10, 1993      | PCT     |  |  |             |
|  | WO94/06077   | March 17, 1994     | PCT     |  |  |             |
|  | WO94/08399   | April 14, 1994     | PCT     |  |  |             |
|  | WO95/00161   | January 5, 1995    | PCT     |  |  |             |
|  | WO95/26001   | September 28, 1995 | PCT     |  |  |             |
|  | WO98/26356   | June 18, 1998      | PCT     |  |  |             |
|  | WO98/28697   | July 2, 1998       | PCT     |  |  |             |
|  | WO98/29952 . | July 9, 1998       | PCT     |  |  |             |
|  | WO98/31102   | July 16, 1998      | PCT     |  |  |             |
|  | WO98/35299   | August 13, 1998    | PCT     |  |  |             |
|  | WO99/00731   | January 7, 1999    | PCT     |  |  |             |
|  | WO99/00739   | January 7, 1999    | PCT     |  |  |             |
|  | WO99/12111   | March 11, 1999     | PCT     |  |  |             |
|  | WO99/32975   | July 1, 1999       | PCT     |  |  |             |
|  | WO99/40522   | August 12, 1999    | PCT     |  |  |             |
|  | WO99/44147   | September 2, 1999  | PCT     |  |  |             |
|  | WO99/44120   | September 2, 1999  | PCT     |  |  |             |
|  | WO00/17771   | March 30, 2000     | PCT     |  |  |             |
|  | WO00/38087   | June 29, 2000      | PCT     |  |  |             |
|  | WO00/77652   | December 21, 2000  | PCT     |  |  |             |
|  | WO01/55917   | August 2, 2001     | PCT     |  |  |             |
|  | WO02/13000   | February 14, 2002  | PCT     |  |  |             |
|  | WO02/21010   | March 14, 2002     | PCT     |  |  |             |
|  | WO02/29600   | April 11, 2002     | PCT     |  |  |             |
|  | WO02/71248   | September 12, 2002 | PCT     |  |  |             |
|  | WO02/071196  | September 26, 2002 | PCT     |  |  |             |
|  | WO02/071249  | September 12, 2002 | PCT     |  |  |             |
|  | WO02/103532  | December 27, 2002  | PCT     |  |  |             |
|  | WO03/017095  | February 27, 2003  | PCT     |  |  |             |

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTS  
PTO-1449**

Attorney Docket No.  
2885/96

Serial No.  
10/551,891

Applicant(s)  
VORBACH

Filing Date  
August 28, 2006

Group Art Unit  
2125

|  |             |                    |       |  |  | TRANSLATION                    |
|--|-------------|--------------------|-------|--|--|--------------------------------|
|  | WO03/025781 | March 27, 2003     | PCT   |  |  |                                |
|  | WO03/023616 | March 30, 2003     | PCT   |  |  |                                |
|  | WO03/032975 | April 24, 2003     | PCT   |  |  |                                |
|  | WO03/036507 | May 1, 2003        | PCT   |  |  |                                |
|  | WO04/114128 | December 29, 2004  | PCT   |  |  |                                |
|  | 8-44581     | February 16, 1996  | Japan |  |  | Abstract                       |
|  | 7-154242    | June 16, 1995      | Japan |  |  | Abstract                       |
|  | 58-58672    | April 7, 1983      | Japan |  |  | Abstract                       |
|  | 2-226423    | September 10, 1990 | Japan |  |  | Abstract                       |
|  | 5-276007    | October 22, 1993   | Japan |  |  | Abstract                       |
|  | 8-250685    | September 27, 1996 | Japan |  |  | Abstract                       |
|  | 2-130023    | May 18, 1990       | Japan |  |  | Abstract                       |
|  | 11-307725   | November 5, 1999   | Japan |  |  | Abstract & Partial Translation |
|  | 2000-181566 | June 30, 2000      | Japan |  |  | Computer Translation           |
|  | 9-27745     | January 28, 1997   | Japan |  |  | Abstract                       |
|  |             |                    |       |  |  |                                |

**OTHER DOCUMENTS**

| EXAMINER'S INITIALS | AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.  |
|---------------------|---|
|                     | Abnous, A., et al., "The Pleiades Architecture," Chapter I of <i>The Application of Programmable DSPs in Mobile Communications</i> , A. Gatherer and A. Auslander, Ed., Wiley, 2002, pp. 1-33.  |
|                     | Ade, et al., "Minimum Memory Buffers in DSP Applications," Electronics Letters, vol. 30, No. 6, March 17, 1994, pp. 469-471.  |
|                     | Alippi, et al., "Determining the Optimum Extended Instruction Set Architecture for Application Specific Reconfigurable VLIW CPUs," IEEE, 2001, pp. 50-56.   |
|                     | Arabi, et al., "PLD Integrates Dedicated High-speed Data Buffering, Complex State machine, and Fast Decode Array," conference record on WESCON '93, Sep. 28, 1993, pp. 432-436.   |
|                     | Athanas, "A Functional Reconfigurable Architecture and Compiler for Adoptive Computing," IEEE 1993, pages 49-55.  |
|                     | Athanas, et al., "An Adaptive Hardware Machine Architecture and Compiler for Dynamic Processor Reconfiguration," IEEE, Laboratory for Engineering man/Machine Systems Division of Engineering, Box D, Brown University, Providence, Rhode Island, 1991, pages 397-400.  |
|                     | Baumgarte, V. et al., PACT XPP "A Self-reconfigurable Data Processing Architecture," PACT Info. GMBH, Munchen Germany, 2001, 7 pages.   |
|                     | Beck et al., "From control flow to data flow," TR 89-1050, October 1989, Dept. of Computer Science, Cornell University, Ithaca, NY, pp. 1-25.   |
|                     | Becker, J. et al., "Parallelization in Co-compilation for Configurable Accelerators - a Host/accelerator Partitioning Compilation Method," Proceedings of Asia and South Pacific Design Automation Conference, Yokohama, Japan, February 10-13, 1998, 11 pages.   |
|                     | Bittner, "Wormhole Run-time Reconfiguration: Conceptualization and VLSI Design of a High Performance Computing System," Dissertation, January 23, 1997, pp. I-XX, 1-415.  |
|                     | Cadambi, et al., "Managing Pipeline-reconfigurable FPGAs," ACM, 1998, pp. 55-64.  |
|                     | Callahan, et al., "The Garp Architecture and C Compiler," Computer, April 2000, pages 62-69.  |
|                     | Cardoso, Joao M.P. and Markus Weinhardt, "XPP-VC: A C Compiler with Temporal Partitioning for the PACT-XPP Architecture," Field-Programmable Logic and Applications. Reconfigurable Computing is Going Mainstream, 12 <sup>th</sup> International Conference FPL 2002, Proceedings (Lecture Notes in Computer Science, Vol. 2438) Springer-Verlag Berlin, Germany, 2002, pp. 864-874. |

|  |                                       |                               |
|--|---------------------------------------|-------------------------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANTS<br/>PTO-1449</b> | Attorney Docket No.<br>2885/96        | Serial No.<br>10/551,891      |
|  | Applicant(s)<br><b>VORBACH</b>        |                               |
|  | Filing Date<br><b>August 28, 2006</b> | Group Art Unit<br><b>2125</b> |

|  |
|--|
| Cardoso, J.M.P. "Compilation of Java™ Algorithms onto Reconfigurable Computing Systems with Exploitation of Operation-Level Parallelism," Ph.D. Thesis, Universidade Tecnica de Lisboa (UTL), Lisbon, Portugal October 2000 ( <a href="#">Table of Contents</a> and <a href="#">English Abstract only</a> ). |
| Chen et al., "A reconfigurable multiprocessor IC for rapid prototyping of algorithmic-specific high-speed DSP data paths," IEEE Journal of Solid-State Circuits, Vol. 27, No. 12, December 1992, pp.1895-1904.   |
| DeHon, A., "DPGA Utilization and Application," MIT Artificial Intelligence Laboratory, Proceedings of the Fourth International ACM Symposium on Field-Programmable Gate Arrays (FPGA '96), IEEE Computer Society, pp. 1-7.   |
| Diniz, P., et al., "Automatic Synthesis of Data Storage and Control Structures for FPGA-based Computing Engines," 2000, IEEE, pages 91-100.  |
| Donandt, "Improving Response Time of Programmable Logic Controllers by use of a Boolean Coprocessor," AEG Research Institute Berlin, IEEE, 1989, pages 4-167 - 4-169.  |
| Dutt, et al., "If Software is King for Systems-in-Silicon, What's New in Compiler?," IEEE, 1997, pp. 322-325.  |
| Ferrante, J. et al., "The Program Dependence Graph and its Use in Optimization ACM Transactions on Programming Languages and Systems," July 1987, USA, [online] Bd. 9, Nr. 3, pages 319-349, XP002156651 ISSN: 0164-0935 ACM Digital Library.  |
| Fineberg, S, et al., "Experimental Analysis of a Mixed-Mode Parallel Architecture Using Bitonic Sequence Sorting," Journal of Parallel and Distributed Computing, Vol. 11, No. 3, March 1991, pages 239-251.   |
| Fornaciari, et al., System-level power evaluation metrics, 1997 Proceedings of the 2 <sup>nd</sup> Annual IEEE International Conference on Innovative Systems in Silicon, New York, NY, October 1997, pp. 323-330.   |
| Forstner, "Wer Zuerst Kommt, Mahlt Zuerst!: Teil 3: Einsatzgebiete und Anwendungbeispiele von FIFO-Speichern," Elektronik, August 2000, pages 104-109.   |
| Franklin, Manoj et al., "A Fill-Unit Approach to Multiple Instruction Issue," Proceedings of the Annual International Symposium on Microarchitecture, November 1994, pp. 162-171.  |
| Gokhale, M.B. et al., "Automatic Allocation of Arrays to Memories in FPGA processors with Multiple Memory Banks," Field-Programmable Custom Computing Machines, 1999, IEEE, pages 63-67.   |
| Hammes, Jeff et al., "Cameron: High Level Language Compilation for Reconfigurable Systems," Department of Computer Science, Colorado State University, Conference on Parallel Architectures and Compilation Techniques, October 12-16, 1999, 9 pages.  |
| Hartenstein, R., "Coarse grain reconfigurable architectures," Design Automation Conference, 2001, Proceedings of the ASP-DAC 2001 Asia and South Pacific, January 30- February 2, 2001, IEEE 30 January 2001, pp. 564-569.   |
| Hastie et al., "The implementation of hardware subroutines on field programmable gate arrays," Custom Integrated Circuits Conference, 1990, Proceedings of the IEEE 1990, May 16, 1990, pp. 31.3.1 – 31.4.3 (3 pages).   |
| Hauck, "The Roles of FPGAs in Reprogrammable Systems," IEEE, April 1998, pp. 615-638.  |
| Hauser, J.R., et al., "Garp: A MIPS Processor with a Reconfigurable Coprocessor," University of California, Berkeley, IEEE, 1997, pages 24-33.   |
| Hedge, S.J., "3D WASP Devices for On-line Signal and Data Processing," 1994, International Conference on Wafer Scale Integration, pages 11-21.   |
| Hwang, L. et al., "Min-cut Replication in Partitioned Networks," IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, [online] Bd. 14, Nr. 1, January 1995, pages 96-106, XP00053228 USA ISSN: 0278-0070 IEEE Xplore.  |
| Iseli, C., et al. "A C++ Compiler for FPGA Custom Execution Units Synthesis," IEEE, 1995, pp. 173-179.   |
| Isshiki, Tsuyoshi, et al., "Bit-Serial Pipeline Synthesis for Multi-FPGA Systems with C++ Design Capture," 1996 IEEE, pp. 38-47.   |
| Jacob, J., et al., "Memory Interfacing and Instruction Specification for Reconfigurable Processors," ACM 1999, pages 145-154.  |
| Jantsch, Axel et al., "A Case Study on Hardware/Software Partitioning," Royal Institute of Technology, Kista, Sweden, April 10, 1994, IEEE, pp. 111-118.   |
| John, L., et al., "A Dynamically Reconfigurable Interconnect for Array Processors," Vol. 6, No. 1, March 1998, IEEE, pages 150-157.  |
| Kastrup, B., "Automatic Hardware Synthesis for a Hybrid Reconfigurable CPU Featuring Philips CPLDs," Proceedings of the PACT Workshop on Reconfigurable Computing, 1998, pp. 5-10.   |
| Koch, A., et al., "Practical Experiences with the SPARXIL Co-Processor," 1998, IEEE, pages 394-398.  |
| Koren et al., "A data-driven VLSI array for arbitrary algorithms," IEEE Computer Society, Long Beach, CA Vol. 21, No. 10, 1 October 1988, pp. 30-34.   |
| Kung, "Deadlock Avoidance for Systolic Communication," 1988 Conference Proceedings of the 15 <sup>th</sup> Annual International Symposium on Computer Architecture, May 30, 1998, pp. 252-260.   |

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTS  
PTO-1449**

|                                       |                               |
|---------------------------------------|-------------------------------|
| Attorney Docket No.<br>2885/96        | Serial No.<br>10/551,891      |
| Applicant(s)<br><b>VORBACH</b>        |                               |
| Filing Date<br><b>August 28, 2006</b> | Group Art Unit<br><b>2125</b> |

|  |
|--|
| Lee, Jong-eun et al., "Reconfigurable ALU Array Architecture with Conditional Execution," International Soc. Design Conference (ISOOC) [online] October 25, 2004, Seoul, Korea, 5 pages.   |
| Ling, X., "WASMII: An MPLD with Data-Driven Control on a Virtual Hardware," Journal of Supercomputing, Kluwer Academic Publishers, Dordrecht, Netherlands, 1995, pp. 253-276.  |
| Ling et al., "WASMII: A Multifunction Programmable Logic Device (MPLD) with Data Driven Control," The Transactions of the Institute of Electronics, Information and Communication Engineers, 25 April 1994, Vol. J77-D-1, Nr. 4, pp. 309-317. [This reference is in Chinese, but should be comparable in content to the Ling et al. reference above]                               |
| Mano, M.M., "Digital Design," by Prentice Hall, Inc., Englewood Cliffs, New Jersey 07632, 1984, pp. 119-125, 154-161.  |
| Maxfield, C., "Logic that Mutates While-U-Wait," EDN (Bur. Ed) (USA), EDN (European Edition), 7 November 1996, Cahners Publishing, USA, pp. 137-140, 142.  |
| Miller, M.J., et al., "High-Speed FIFOs Contend with Widely Differing Data Rates: Dual-port RAM Buffer and Dual-pointer System Provide Rapid, High-density Data Storage and Reduce Overhead," Computer Design, September 1, 1985, pages 83-86.   |
| Mirsky, E. DeHon, "MATRIX: A Reconfigurable Computing Architecture with Configurable Instruction Distribution and Deployable Resources," Proceedings of the IEEE Symposium on FPGAs for Custom Computing Machines, 1996, pp. 157-166.  |
| Myers, G. "Advances in Computer Architecture," Wiley-Interscience Publication, 2nd ed., John Wiley & Sons, Inc., 1978, pp. 463-494.  |
| Nilsson, et al., "The Scalable Tree Protocol - A Cache Coherence Approaches for Large-Scale Multiprocessors," IEEE, pp. 498-506, December 1992.  |
| Norman, R.S., "Hyperchip Business Summary, The Opportunity," January 31, 2000, pages 1-3.  |
| Ozawa, Motokazu et al., "A Cascade ALU Architecture for Asynchronous Super-Scalar Processors," IEICE Transactions on Electronics, Electronics Society, Tokyo, Japan, Vol. E84-C, No. 2, February 2001, pp. 229-237.  |
| Piotrowski, A., "IEC-BUS, Die Funktionsweise des IEC-Bus und seine Anwendung in Geräten und Systemen," 1987, Franzis-Verlag GmbH, München, pp. 20-25.  |
| Razdan et al., "A High-Performance Microarchitecture with Hardware-Programmable Functional Units, Micro-27, Proceedings of the 27 <sup>th</sup> Annual International Symposium on Microarchitecture, IEEE Computer Society and Association for Computing Machinery, November 30-December 2, 1994, pp. 172-180.   |
| Saleeba, M. "A Self-Contained Dynamically Reconfigurable Processor Architecture," Sixteenth Australian Computer Science Conference, ASCS-16, QLD, Australia, February, 1993, pp. 59-70.  |
| Schmit, et al., Hidden Markov Modeling and Fuzzy Controllers in FPGAs, FPGAs for Custom Computing machines, 1995; Proceedings, IEEE Symposium in Napa Valley, CA, April 1995, pp. 214-221.   |
| Shirazi, et al., "Quantitative analysis of floating point arithmetic on FPGA based custom computing machines," IEEE Symposium on FPGAs for Custom Computing Machines, IEEE Computer Society Press, April 19-21, 1995, pp. 155-162.   |
| Siemers, C., "Rechenfabrik Ansätze Fuer Extrem Parallele Prozessoren," Verlag Heinze Heise GmbH., Hannover, DE No. 15, July 16, 2001, pages 170-179.   |
| Siemers et al., "The .>S<puter: A Novel Microarchitecture Mode for Execution inside Superscalar and VLIW Processors Using Reconfigurable Hardware," Australian Computer Science Communications, Volume 20, No. 4, Computer Architecture, Proceedings of the 3 <sup>rd</sup> Australian Computer Architecture Conference, Perth, John Morris, Ed., February 2-3, 1998, pp. 169-178. |
| Simunic, et al., Source Code Optimization and Profiling of Energy Consumption in Embedded Systems, Proceedings of the 13 <sup>th</sup> International Symposium on System Synthesis, September 2000, pp. 193-198.   |
| Skokan, Z.E., "Programmable logic machine (A programmable cell array)," IEEE Journal of Solid-State Circuits, Vol. 18, Issue 5, October 1983, pp. 572-578.   |
| Sueyoshi, T., "Present Status and Problems of the Reconfigurable Computing Systems Toward the Computer Evolution," Department of Artificial Intelligence, Kyushu Institute of Technology, Fukuoka, Japan; Institute of Electronics, Information and Communication Engineers, Vol. 96, No. 426, IEICE Technical Report (1996), pp. 111-119 [English Abstract]                       |
| Tau, E., et al., "A First Generation DPGA Implementation," FPD'95, pp. 138-143.  |
| Tenca, A.F., et al., "A Variable Long-Precision Arithmetic Unit Design for Reconfigurable Coprocessor Architectures," University of California, Los Angeles, 1998, pages 216-225.  |
| The XPP White Paper, Release 2.1, PACT - A Technical Perspective, March 27, 2002, pages 1-27.  |
| TMS320C54X DSP: CPU and Peripherals, Texas Instruments, 1996, pp. 6-26 to 6-46.  |
| TMS320C54x DSP: Mnemonic Instruction Set, Texas Instruments, 1996, p. 4-64.  |
| Villasenor, et al., "Configurable Computing Solutions for Automatic Target Recognition," IEEE, 1996 pp. 70-79.   |
| Villasenor, et al., "Configurable Computing," Scientific American, Vol. 276, No. 6, June 1997, pp. 66-71.  |

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|  | Villasenor, et al., "Express Letters Video Communications Using Rapidly Reconfigurable Hardware," IEEE Transactions on Circuits and Systems for Video Technology, IEEE, Inc., NY, December 1995, pp. 565-567.  |
|  | Wada, et al., "A Performance Evaluation of Tree-based Coherent Distributed Shared Memory," Proceedings of the Pacific RIM Conference on Communications, Comput and Signal Processing, Victoria, May 19-21, 1993, pp. 390-393.  |
|  | Weinhardt, M., "Compilation Methods for Structure-programmable Computers," dissertation, ISBN 3-89722-011-3, 1997. <b>[TABLE OF CONTENTS AND ENGLISH ABSTRACT PROVIDED]</b>  |
|  | Weinhardt, Markus et al., "Pipeline Vectorization for Reconfigurable Systems," 1999, IEEE, pages 52-62.  |
|  | Weinhardt, Markus et al., "Pipeline Vectorization," IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, Vol. 20, No. 2, February 2001, pp. 234-248.   |
|  | Wittig, et al., "OneChip: An FPGA Processor with Reconfigurable Logic," IEEE, 1996, pp. 126-135.   |
|  | Wu, et al., "A New Cache Directory Scheme," IEEE, pp. 466-472, June 1996.  |
|  | Xu, H.Y. et al., "Parallel QR Factorization on a Block Data Flow Architecture," Conference Proceeding Article, March 1, 1992, pages 332-336 XPO10255276, page 333, Abstract 2.2, 2.3, 2.4 - page 334.  |
|  | XILINX, "Logic Cell Array Families: XC4000, XC4000A and XC4000H," product description, pp. 2-7, 2-9, 2-14, 2-15, 8-16, and 9-14.   |
|  | Ye, Z.A. et al., "A C-Compiler for a Processor With a Reconfigurable Functional Unit," FPGA 2000 ACM/SIGNA International Symposium on Field Programmable Gate Arrays, Monterey, CA Feb 9-11, 2000, pp. 95-100.   |
|  | Yeung, A. et al., "A data-driven architecture for rapid prototyping of high throughput DSP algorithms," Dept. of Electrical Engineering and Computer Sciences, Univ. of California, Berkeley, USA, <i>Proceedings VLSI Signal Processing Workshop, IEEE Press</i> , pp. 225-234, Napa, October 1992. |
|  | Yeung, A. et al., "A reconfigurable data-driven multiprocessor architecture for rapid prototyping of high throughput DSP algorithms," Dept. of Electrical Engineering and Computer Sciences, Univ. of California, Berkeley, USA, pp. 169-178, <i>IEEE</i> 1993.                                      |
|  | Zhang, et al., Architectural Evaluation of Flexible Digital Signal Processing for Wireless Receivers, Signals, Systems and Computers, 2000; Conference Record of the Thirty-Fourth Asilomar Conference, Bd. 1, 29 October 2000, pp. 78-83.   |

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\*\* = English language equivalent is cited U.S. Patent 6,425,054